Att m y's Dock t N . HES 2000-TP-001848111

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE $\#^{\&}$

Patent application		TEN5 I, D.5
of		
	inventor(s)	RECEIVE
for		NECEIVE
	title of invention	DEC 1'2 2000
	OR .	- 0 2002
		TC 1700
in re application of: Ronald E.	Sweatman et al.	.,00
Serial No.: 0 10 1082,459	Group Art Unit:	1712
Filed: February 25, 2002	Examiner: Phill	lip Tucker
For Methods of Discovering	and Correcting Subte	erranean Formation Integrit
Problems During Drilli Assistant Commissioner for Pat	ients	
Washington, D.C. 20231		
TRANSMITTAL OF IN	FORMATION DISCLOSE	URE STATEMENT
	REE MONTHS OF FILI	
BEFORE MAILING OF	FIRST OFFICE ACTIO	N (37 CFR 1.97(b))
NOTE: "An information disclosure state		
	pplication; (2) within three months	of the date of entry of the national
	a international analisations or (3) ha	More the melling care of a rict ( imce
stage as set forth in § 1.491 in a	n international application; or (3) be event occurs last." 37 CFR 1.97(t	

## CERTIFICATE OF MAILING/TRANSMISSION (37 CFR-1.8a)

I hereby certify that this correspondence is, on the date shown below, being:

### MAILING

 deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: 12/09/02

### FACSIMILE

☐ transmitted by facsimile to the Patent and Trademark Office.

Sheila Selelis

Signature

<u>Sheila Gibbs</u>

(type or print name of person certifying)

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [8-3]—page 1 of 2) NOTE: The "filing date of a national application" under 37 CFR 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 CFR 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least on claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 CFR 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the national fee; (2) a copy of the international application, unless already sent by the International Bureau, and an English translation if filed in another language; (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. 37 CFR 1.97(b)(2).

## IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last, 37 CFR 1.97(b).

- NOTE: "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing.
- NOTE: "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 CFR 1.8, or Express Mail certificate under 37 CFR 1.10. An Office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "The term 'national application' includes continuing applications (continuations, divisions, continuations-in-part) so three-months will be measured from the actual filing date of an application as opposed (sic) to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirements (37 CFR 1.142) or just a requirement for additional fees to have a claim considered (37 CFR 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING: "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 CFR 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner."

Notice of July 6, 1992 (1141 O.G. 63).

way W. K

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(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action [8-3]—page 2 of 2) OIPE COS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Ronald E. Sweatman et al.	)
		) Art Unit: 1712
Serial No.:	10/082,459	)
Filed:	February 25, 2002	) )Examiner: Phillip Tucker
For:	METHODS OF DISCOVERING AND CORRECTING SUBTERRAN-	) )

INFORMATION DISCLOSURE STATEMENT

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ASSISTANT COMMISSIONER FOR PATENTS Washington, D.C. 20231

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

## U. S. PATENTS

- U.S. Patent Number 3,960,082 issued June 1, 1976 to Fedor I. Sloevsky et al.
- U.S. Patent Number 4,434,848 issued March 6, 1984 to Michael B. Smith.
- U.S. Patent Number 4,714,115 issued December 22, 1987 to Duane C. Uhri.
- U.S. Patent Number 4,718,490 issued January 12, 1988 to Duane C. Uhri.
- U.S. Patent Number 5,253,709 issued October 19, 1993 to Larry N. Kendrick et al.
- U.S. Patent Number 5,275,041 issued January 4, 1994 to Don K. Poulsen.

- Docket No: HES 2000-IP-001848U1 Page 2
- U.S. Patent Number 5,335,726 issued August 9, 1994 to Klein A. Ridrigues.
- U.S. Patent Number 5,358,051 issued October 25, 1994 to Klein A. Rodrigues.
- U.S. Patent Number 5,472,049 issued December 5, 1995 to Brent F. Chafee et al.
- U.S. Patent Number 5,482,116 issued January 9, 1996 to Al Wadood El-Rabba et al.
- U.S. Patent Number 5,497,831 issued March 12, 1996 to Bryant W. Hainey et al.
- U.S. Patent Number 5,836,392 issued November 17, 1998 to Phillip L. Urlwin-Smith.
- U.S. Patent Number 5,868,030 issued February 9, 1999 to John L. Brumley et al.
- U.S. Patent Number 5,873,413 issued February 23, 1999 to Jiten Chatterji et al.
- U.S. Patent Number 5,881,826 issued March 16, 1999 to Tommy F. Brookey.
- U.S. Patent Number 5,890,536 issued April 6, 1999 to Dale E. Nierode et al.
- U.S. Patent Number 5,934,377 issued August 10, 1999 to Ronald E. Savage.
- U.S. Patent Number 5,945,387 issued August 31, 1999 to Jiten Chatterji et al.

Docket No: HES 2000-IP-001848U1 Page 3

- U.S. Patent Number 6,123,159 issued September 26, 2000 to Tommy F. Brookey et al.
- U.S. Patent Number 6,148,917 issued November 21, 2000 to Tommy F. Brookey et al.
- U.S. Patent Number 6,156,708 issued December 5, 2000 to Tommy F. Brookey et al.
- U.S. Patent Number 6,167,967 B1 issued January 2, 2001 to Ronald E. Sweatman.
- U.S. Patent Number 6,186,230 B1 issued February 13, 2001 to Dale E. Nierode.
- U.S. Patent Number 6,192,986 B1 issued February 27, 2001 to Phillip L. Urlwin-Smith.
- U.S. Patent Number 6,196,317 Bl issued March 6, 2001 to Mary Anne Hardy.
- U.S. Patent Number 6,237,688 B1 issued May 29, 2001 to John D. Burleson et al.
- U.S. Patent Number 6,367,549 B1 issued April 9, 2002 to Jiten Chatterji et al.
- U.S. Patent Number 6,390,208 B1 issued May 21, 2002 to Tommy F. Brookey.
- U.S. Patent Number 6,401,818 B1 issued June 11, 2002 to Panos Papaanastasiou.

### U.S. PATENT APPLICATION PUBLICATIONS

U.S. Patent Application Publication Number US 2002/0092654 Al published July 18, 2002. Docket No: HES 2000-IP-001848U1 Page 4

### FOREIGN PATENTS

PCT Publication Number WO 01/41617 A1 published June 14, 2001.

PCT Publication Number WO 01/98626 Al published December 27, 2001.

PCT Publication Number WO 01/98627 Al published December 27, 2001.

PCT Publication Number WO 96/32567 published October 17, 1996.

### OTHER MATERIAL

SPE 10911 entitled "Fracture Design Considerations Based On Pressure Analysis" by Kenneth G. Nolte, dated 1982.

SPE 28555 entitled "Oriented Perforations - A Rock Mechanics View" by Hazim A. Abass et al., dated 1994.

ETCE98-4656 entitled "Borehole Failure Resulting From Formation Integrity (Leak-Off) Testing In upper Marine Sediments Offshore" by Andrew K. Wojtanowicz et al., dated 1998.

ETCE99-6645 entitled "Solutions Proposed For Deepwater Drilling Challenges Using New Technology For Hole-Stabilization-While-Drilling" by Ronald Sweatman et al., dated 1999.

SPE 59131 entitled "Improved Zonal Isolation Through The Use Of Sealants Before Primary Cementing Operations" by Loyd E. East, Jr. et al., dated 2000.

Paper entitled "How To Choose Between Mud and Cement Inflation Of Inflatable Packers" by George O. Suman, Jr. et al., dated 1995.

Docket No: HES 2000-IP-001848U1 Page 5

SPE 59132 entitled "New Cement Systems For Durable Zonal Isolation" by Le Roy-Delage S. et al., dated 2000.

SPE 20409 entitled "Theory of Lost Circulation Pressure" by N. Morita et al., dated 1990.

SPE/IADC 67735 entitled "Lost Circulation Control: Evolving Techniques and Strategies to Reduce Downhole Mud Losses" by James R. Bruton, dated 2001.

SPE 68946 entitled "Formation Pressure Integrity Treatments Optimize Drilling and Completion of HTHP Production Hole Sections" by Ronald E. Sweatman et al., dated 2001.

SPE 71377 entitled "Aphron-Base Drilling Fluid: Evolving Technologies for Lost Circulation Control" by C.D. Ivan et al., dated 2001.

SPE 71390 entitled "New Treatments Substantially Increase LOT/FIT Pressures to Solve Deep HTHP Drilling Challenges" by Sid Webb et al., dated 2001 (INCLUDING COPIES OF POWER POINT SLIDES AND OUTLINE FOR CORRESPONDING POWER POINT PRESENTATION).

IADC/SPE 74518 entitled "Unique Crosslinking Pill in Tandem With Fracture Prediction Model Cures Circulation Losses in Deepwater Gulf of Mexico" by Douglas E. Caughron et al., dated 2002.

AADE 01 -NC-HO-42 entitled "Treatments Increase Formation Pressure Integrity in HTHP Wells" by Scott Kelley et al, dated 2001.

Docket No: HES 2000-IP-001848U1

Page 6

Paper entitled "Drill ahead to complete HP/HT wells" by Scott Kelley et al., Hart's E & P, September 2001, pp. 87-89, Chemical Week Associates, New York, NY.

Paper entitled "Fracture Evaluation Using Pressure Diagnostics" by Sunil N. Gulrajani et al., Reservoir Stimulation, June 2000, pp. 9-1 to 9-63, John Wiley & Sons, Inc., Hoboken, NJ.

Brochure entitled "Novel lost circulation treatment",
InstanSeal Brochure, dated 2000.

Copies of the aforementioned references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

Craig W. Roddy

Registration No. 36,256 Halliburton Energy Services

P. O. Box 1431

Duncan, OK 73536-0440

580-251-3012

ATTORNEY FOR APPLICANTS

Sheet 1 of 6

PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO. 2000-IP-001848U1

SERIAL NO. 10/082,459

APPLICANT

Ronald E. Sweatman et al.

FILING DATE February 25, 2002 GROUP 1712

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### U.S. PATENT DOCUMENTS

EXAMINER							Filing Date if
INITIAL		Document No.	Date	Name	Class	Subclass	Appropriate
	AA	3,960,082	06/01/76	Sloevsky et al.	102	22	
	AB	4,434,848	03/06/84	Smith	166	250	
	AC	4,714,115	12/22/87	Uhri	166	308	
	AD	4,718,490	01/12/88	Uhri	166	281	
	AE	5,253,709	10/19/93	Kendrick et al.	166	284	
	AF	5,275,041	01/04/94	Poulsen	73	155	·
	AG	5,335,726	08/09/94	Rodrigues	166	295	<del></del>
	AH	5,358,051	10/25/94	Rodrigues	166	295	
	ΑI	5,472,049	12/05/95	Chaffee et al.	166	250.1	
	АĴ	5,482,116	01/09/96	El-Rabaa et al.	166	250.1	
	AK	5,497,831	03/12/96	Hainey et al.	166	308	

### FOREIGN PATENT DOCUMENTS

							Translation	
		Document No.	Date	Country	Class	Subclass	Yes	No
,	AL	WO 01/41617 A1	06/14/01	PCT	A47L	5/34	Х	
`	AM	WO 01/98626 A1	12/27/01	PCT	E21B	33/13	Х	
^	AN	WO 01/98627 A1	12/27/01	PCT	E21B	33/13/	Х	
,	AO	WO 96/32567	10/17/96	PCT	E21B	43/26	Х	
-	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

,	AR	SPE 10911 entitled "Fracture Design Considerations Based On Pressure
		Analysis" by Kenneth G. Nolte, dated 1982.
,	AS	SPE 28555 entitled "Oriented Perforations - A Rock Mechanics View" by
•,•		Hazim H. Abass et al., dated 1994.
۲	AT	ETCE98-4656 entitled "Borehole Failure Resulting From Formation
		Integrity (Leak-Off) Testing In Upper Marine Sediments Offshore" by
		Andrew K. Wojtanowicz et al., dated 1998.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



EXAMINER

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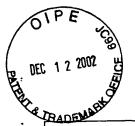
Sheet <u>2</u> of <u>6</u>

FORM PTO-1449 (Modified)  LIST OF PATENTS AND PUBLICATIONS	ATTY. DOCKET NO. 2000-IP-001848U1	SERIAL NO. 10/082,459
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT Ronald E. Sweatman et a	1.
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INITIAL		Document No.	Date	Name	Class	Subclass	i	e II priate
	AA	5,836,392	11/17/98	Urlwin-Smith	166	295	-FF	<u> </u>
	AB	5,868,030	02/09/99	Brumley et al.	73	784		
******	AC	5,873,413	02/23/99	Chatterji et al.	166	293		
	AD	5,881,826	03/16/99	Brookey	175	72		
	AE	5,890,536	04/06/99	Nierode et al.	166	284		·· <u>·</u> ·
	AF	5,934,377	08/10/99	Savage	281	392		
	AG	5,945,387	08/31/99	Chatterji et al.	507	224		
	AH	6,123,159	09/26/00	Brookey et al.	175	72		
	ΑI	6,148,917	11/21/00	Brookey et al.	166	301		
	AJ	6,156,708	12/05/00	Brookey et al.	507	102		
	AK	6,167,967 B1	01/02/01	Sweatman	166	281		-
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	AR	ETCE99-6645	entitled	"Solutions Proposed	For Deep	owater Dril	ling	
				Technology For Hole- t al., dated 1999.	Stabili:	zation-Whil	e-Dril	ling"
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		<del>                                     </del>		by George O. Suman, J				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED



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Sheet	3	of	6

SERIAL NO. FORM PTO-1449 (Modified) ATTY. DOCKET NO. 2000-IP-001848U1 10/082,459 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION APPLICANT DISCLOSURE STATEMENT Ronald E. Sweatman et al. (Use several sheets if necessary) GROUP FILING DATE February 25, 2002 1712

PATENT DOCUMENTS

·			U	I.S. PATENT DOCUMENTS			
EXAMINER							Filing Date if
INITIAL		Document No.	Date	Name	Class	Subclass	Appropriate
	AA	6,186,230 B1	02/13/01	Nierode	166	250.1	
	AB	6,192,986 B1	02/27/01	Urlwin-Smith	166	295	
	AC	6,196,317 B1	03/06/01	Hardy	166	295	
	AD	6,237,688 B1	05/29/01	Burleson et al.	166	281	
	AE	6,367,549 B1	04/09/02	Chatterji et al.	166	295	
	AF	6,390,208 B1	05/21/02	Brookey	175	72	
	AG	6,401,818 B1	06/11/02	Papanastasiou	166	297	
	AH	US2002/ 0092654A1	07/18/02	Coronado et al.	166	369	
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### FOREIGN PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	j.	AR	IADC/SPE 59132 entitled "New Cement Systems For Durable Zonal
			Isolation" by Le Roy-Delage S. et al., dated 2000.
		AS	SPE 20409 entitled "Theroy of Lost Circulation Pressure" by
			N. Morita et al., dated 1990.
-	۳	AT	SPE-IADC 67735 entitled "Lost Circulation Control: Evolving Techniques
	ı		And Strategies to Reduce Downhole Mud Losses" by James R. Bruton et al., dated 2001.

EXAMINER

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## RECEIVED DEC 1 3 2002 TC 1700

Sheet  $\underline{4}$  of  $\underline{6}$ 

FORM PTO-1449 (Modified)  LIST OF PATENTS AND PUBLICATIONS				ATTY. DOCKET NO. 2000-IP-001848U1			SERIAL NO. 10/082,459			
	APPI	LICANT'S INFORM CLOSURE STATEMEN	ATION	APPLICANT Ronald E. Sweatman et al.						
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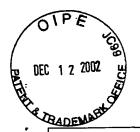
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Sheet 5 of 6

FORM PTO-1449 (Modified)  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				ATTY. DOCKET NO. 2000-IP-001848U1		SERIAL NO. 10/082,459					
				APPLICANT Ronald E. Sweatman et al.							
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``	AR	T (Including Author, Title, Date, Pertinent Pages, Etc.)  IADC/SPE 74518 entitled "Unique Crosslinking Pill In Tandem With									
		Fracture Prediction Model Cures Circulation Losses In Deepwater Gulf									
		Of Mexico" by Douglas E. Caughron et al., dated 2002.									
1	AS	AADE 01-NC-HO-42 entitled "Treatments Increase Formation Pressure									
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		Et al., Hart's E&P, Chemical Week Associates, New York, NY, dated 2001.									
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Sheet  $\underline{6}$  of  $\underline{6}$ 

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				APPLICANT Ronald E. Sweatman et al.							
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^		Paper entitled "Fracture Evaluation Using Pressure Diagnostics" by Sunil N. Gulrajani et al, dated 2000.									
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.